

(B) AMENDMENTS TO THE SPECIFICATION

Please amend the specification as follows:

Amend paragraph [0035] as follows:

[0035] At step 107, split-step Fourier extrapolation is applied in the migration interval selected in step 103. The split-step Fourier extrapolation is preferably given by the embodiment described with reference to Equations (20) to (24) ~~the flowchart in FIG. 4~~, below. Then the process proceeds to step 109.

Amend paragraphs [0079] and [0080] as follows:

[0079] The method of the invention for performing split-step Fourier extrapolation method, referred to in step 106 of FIG. 1, is accomplished by applying Equations (16) – (19) just as in FIG. 3, with the one exception of using a spatially variable velocity in the thin lens computation of Equation (19) in step 306 ~~305~~.

[0080] After the processing is completed ~~in FIG. 4~~, the pressure has been extrapolated downward through the next migration interval, using split-step Fourier extrapolation.